APPENDIX V VIBRACORE LOGS



Coastal Planning & Engineering 2481 N.W. Boca Raton Blvd. Boca Raton, Florida 33431 Phone # 1-561-391-8102

Legend for Geotechnical Data

(SP), (SM), etc. Refers to the Army Corps of Engineers Unified Soils Classification

System. Classification of materials on the core logs is initially

based on visual field examinations. Final classifications are based

on laboratory sieve analyses and are identified on the core logs.

Silty, shelly, etc. The indicated sediment type is present. The estimated percentage

indicated by the Unified Soil Classification System descriptive

terms selected to describe the sediment that is shown in table 3.

Definition of descriptive terms Grain size terms

Clean Free of silt or clay Cobbles – above 3"

Gravel – 3" sieve to #4 sieve

Very To a high degree Coarse -3" sieve to $\frac{3}{4}$ " sieve Fine $-\frac{3}{4}$ " sieve to $\frac{4}{4}$ sieve

Slightly To a small degree Sand -# 4 sieve to # 4 sieve Sand -# 4 sieve to # 200 sieve

Isolated Limited occurrence Coarse - # 4 sieve to # 10 sieve Medium - # 10 sieve to # 40 sieve

Occasional Infrequently present Fine - # 40 sieve to # 40 sieve

Tight Dense compacted Fine – (silt or clay) < # 200 sieve

Proportional definition of descriptive terms

Descriptive Term	Range of Proportions
Sandy, gravelly, etc.	35 % to 50 %
Some	20 % to 35 %
Little	10 % to 20 %
Trace	1 % to 10 %
Coarse to fine	All sizes
Coarse to medium	10 % fine
Medium to fine	10 % coarse
Coarse	10 % medium and fine
Medium	10 % coarse and fine
Fine	10 % coarse and medium

Note: Information is after ACOE Atlantic Division Manual # 1110-1-1 titled Engineering and Design Geotechnical Manual for Surface and Subsurface Investigations



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Legend for Geotechnical Data

GW	Ø	Well graded gravels or gravel-sand mixtures, little or no fines	ML		Inorganic silts and very fine sands, rock flour, sandy silts or clayey silts with slight plasticity
GP		Poorly graded gravels or gravel-sand mixtures, w/ little or no fines	МН		Inorganic silts, micaceous or diatomaceous fine sandy or silty soild, elastic silts
ΘМ		Silty gravels, gravel- sand-silt mixtures	OL		Organic silts and organic silt-clays of low plasticity
GC		Clayey gravels, gravel- sand-clay mixtures	ОН		Organic clays of medium to high plasticity, organic silts
SW		Well graded sands or gravelly sands, little or no fines	CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
SP		Poorly graded sands or gravelly sands, little or no fines	СН		Inorganic clays of high plasticity, fat clays
SM		Silty sands, sand-silt mixtures	PT	*******	Peat and other highly organic soils
SC		Clayey sands, sand-clay mixtures	SP-SM		Poorly-graded silty sand
SVV-SM		Well-graded silty sand	SM-SC		Silty clayey sand
GVV-GM	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 	Well-graded silty gravel	ML-CL		Inorganic sitty lean clay
GM-GC		Clayey silty gravel			

Note: Information is after ACOE Atlantic Division Manual # 1110-1-1 titled *Engineering and Design Geotechnical Manual for Surface and Subsurface Investigations*

							HOLE NO. BIVC-02-0	
DRILI	LING LO	OG	DIVISION:	INSTALLA	TION:		SHEET 1 of 1	
1. PROJE	СТ	BOG	JE INLET	10. SIZE A				
2. LOCA1	(Coord		or Station)	11. DATUN		E VATIO ILW	N SHOWN (TBM or MSL)	
			567910 Y=331396	12. MANUF			SIGNATION OF DRILL	
3. DRILLIN			IENA TECHNOLOGIES, INC.	ATHENA TECHNOLOGIES, INC.				
4. HOLE N	IO. (As sh	nown on	drawing title and file number) BIVC-02-01	13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0				
5 NAME	OF DRILLE	:P		14. TOTAL NO. OF CORE BOXES				
			Jerry Sexton	15. ELEVA		OUND W	VATER Completed	
6. DIRECT	TION OF HO	DLE	VERTICAL			7/18/02	2 06:30	
7. THICKN	IESS OF BI	URDEN	0.0 FT	-			DLE -1.0 FT RY FOR BORING 87%	
	DRILLED I			19. SIGNA	TURE OF	GEOLO	GIST JB	
9. 101AL	DEPTH OF	HOLE	10.0 F1					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE NUMBER	REMARKS	
-1	· 0 <u>-</u>							
-3.2	1-		SAND, fine-med grained, quartz, t some shell hash, trace shell fragme (5Y-6/1), (SW).		1	Sample #1, Depth = 1.0' Mean (mm): 0.26, Phi Sorting: 0.86 Silt: 1.20% (SW)		
-4.8	3		SAND, fine-med grained, quartz, t trace shell hash, pockets of dark g (5Y-4/1), light gray (5Y-7/1), (2	Sample #2, Depth = 3.0' Mean (mm): 0.21, Phi Sorting: 0.51 Silt: 1.59% (SP)		
-9.6	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		shell hash, trace shell fragments,	fine-med grained, quartz, trace silt, little shell hash, trace shell fragments, wood @ 5.9' (0.5"x0.5"), light gray (5Y-7/1), (SP).			Sample #3, Depth = 6.0' Mean (mm): 0.24, Phi Sorting: 0.82 Silt: 1.62% (SP)	
-11	9		long, trace silt, sand component fi quartz, gray (5Y-6/1), (SW No Recovery	ne-med				
	11 12 13 14 15 16 17 18 19 19 12 22 11 22 12 24 12 24 12 12 12 12 12 12 12 12 12 12 12 12 12		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.					
			•	PROJE	CT: BOGU	E INLET,	, N.C. HOLE NUMBER: BIVC-02-01	

							HOLE NO. BIVC-02-0	
DRILI	LING LO	OG	DIVISION:	INSTALLA	TION:		SHEET 1 of 1	
1. PROJE	СТ	BOGI	JE INLET	10. SIZE A				
2. LOCAT	(Coord		or Station) 567910 Y=331396		N	1LW	N SHOWN (TBM or MSL)	
3. DRILLII	NG AGENC	Y : ATH	IENA TECHNOLOGIES, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL ATHENA TECHNOLOGIES, INC.				
4. HOLE N	NO. (As sh	own on	drawing title and file number) BIVC-02-01A				DEN SAMPLES TAKEN isturbed: 0	
5. NAME	OF DRILLE	R		14. TOTAL				
6. DIRECT	TION OF HO		Jerry Sexton	15. ELEVAT	IOLE	Started	Completed	
7 7111010	1E66 05 5:	1000.	VERTICAL	17. ELEVA	TION TOP	OF HO		
	NESS OF BU						RY FOR BORING 76%	
	DEPTH OF			19. SIGNAT	UKE OF	GEULO	ادان الان الان الان الان الان الان الان	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE	REMARKS	
-9 -9.7 -12.8 -14			SHELLY SAND, whole shells up long, trace silt, sand component fiquartz, wood @ 9.3' (1"x1"), gray (SW). SAND, fine-med grained, quartz, t some shell hash, trace shell fragme (5Y-6/1), (SW). No Recovery End of Boring Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.	ine-med (5Y-6/1), race silt,		1 1s#1	Sample #1, Depth = 8.3' Mean (mm): 0.64, Phi Sorting: 2.32 Silt: 0.91% (SW)	
				PRO IE	CT: BOGU	E INI ET	N.C. HOLE NUMBER: BIVC-02-01A	

								HOLE NO. BIVC-02-0
DRILI	LING LO	OG	DIVISION:	INSTALLA	TION:			SHEET 1 of 1
1. PROJE	СТ	BOGI	JE INLET	10. SIZE A				
2. LOCAT	TION (Coord		or Station) 567910 Y=331396		- N	1LW		(TBM or MSL)
3. DRILLI	NG AGENC	Y : ATH	ENA TECHNOLOGIES, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL ATHENA TECHNOLOGIES, INC.				
4. HOLE N	NO. (As sh	own on	drawing title and file number)		O. OF OVE	ERBURI		LES TAKEN
			BIVC-02-01B	14. TOTAL				
5. NAME	OF DRILLE	R	Jerry Sexton	15. ELEVA	TION GR	OUND W	/ATER	
6. DIRECT	TION OF HO	LE	VERTICAL	16. DATE			06:30 LE -1.0 FT	Completed
7. THICKN	NESS OF BU	JRDEN	0.0 FT					RING 82%
	I DRILLED I			19. SIGNA	TURE OF	GEOLO	GIST JB	
ELEV.	DEPTH OF	LEGEND	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE NUMBER		REMARKS
-1	0-				-			
-13	1 1 2 3 4 5 6 7 8 9 10 11 12 12 1		JET					
-18.4	13— 14— 15— 16—		SAND, fine-med grained, quartz, t little shell hash, whole shell @ (1.5"x1.5"), light gray (5Y-7/1),	14.4'		1s#3	Sample	#1, Depth = 17.7'
-19	18		SHELLY SAND, shell hash, 0.1-0.			1	Mean (m	nm): 0.64, Phi Sorting: 1.56
	'0		fragments, 2"-3" oyster shells at ba		/		Silt: 0.57	% (SW)
-20.3	19		(5Y-5/2), (SW). No Recovery					
	20-		End of Boring					
]]		Note:					
	21		Soils are field visually					
	22		classified in accordance with the Unified Soil Classification System.					
	23							
	23							
	24-							
_				PROJE	ECT: BOGU	E INLET	N.C.	HOLE NUMBER: BIVC-02-01B

								HOLE NO. BIVC-02-0
	LING L	OG	DIVISION:	INSTALLA	TION:			SHEET 1 of 1
1. PROJE	СТ	BOGI	JE INLET	10. SIZE A				/TDM MCL)
2. LOCAT	(Coor		or Station) 568830 Y=330212	11. DATUN		EVATIO 1LW	N SHOWN	(TBM or MSL)
3. DRILLII	NG AGENC		IENA TECHNOLOGIES, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL ATHENA TECHNOLOGIES, INC.				
4. HOLE N	NO. (As si	nown on	drawing title and file number)	13. TOT NO. OF OVERBURDEN SAMPLES TAKEN				
			BIVC-02-02	14. TOTAL			isturbed: 0 OXES	
5. NAME	OF DRILLE	R	Jerry Sexton	15. ELEVA				
	6. DIRECTION OF HOLE VERTICAL					Started 7/19/02 P OF HO		Completed
	NESS OF B							PRING 91%
	I DRILLED DEPTH OF			19. SIGNA	TURE OF	GEOLO	GIST JB	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE		REMARKS
-1.2	0-							
-5	1— 2— 3—		SAND, fine-med grained, quartz, t some shell hash, little shell fragmer half contains pockets of dark gra (5Y-5/2), olive gray (5Y-6/2), (nts, lower y sand		1		#1, Depth = 2.0' lm): 0.28, Phi Sorting: 0.88 l% (SW)
-5.9	4=		SAND, fine-med grained, quartz, t			2	Mean (m	#2, Depth = 4.3' nm): 0.24, Phi Sorting: 0.56
0.0	5		pockets of dark gray sand, gray (Silt: 1.21	% (SP)
-8.2	6		SAND, fine-med grained, quartz, t some shell hash, little shell fragmer shell @ 5.6' (2"x1") and oyster she (3"x2"), gray (5Y-6/1), (SW	nts, whole ell @ 6.0'		3		#3, Depth = 6.0' nm): 0.37, Phi Sorting: 1.22 % (SW)
-12.1	9-10-		SAND, fine-med grained, quartz, t little shell hash, trace shell fragr pockets of dark gray sand, gray ((SP).	nents,		4		#4, Depth = 9.0' nm): 0.25, Phi Sorting: 0.55 ·% (SP)
-13.2			No Recovery					
	12		End of Boring					
	13 14 15 16 17 18 19 20 21 22 23		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.					
				PROJE	CT: BOGU	E INLET,	N.C.	HOLE NUMBER: BIVC-02-02

						HOLE NO. BIVC-02-02	
DRILLIN	G LOG	DIVISION:	INSTALLA	TION:		SHEET 1 of 1	
1. PROJECT	ВО	GUE INLET	10. SIZE AND TYPE OF BIT 3.0"				
2. LOCATION	(Coordinates	or Station) 2568830 Y=330212		N	ILW	N SHOWN (TBM or MSL)	
3. DRILLING A	GENCY: AT	HENA TECHNOLOGIES, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL ATHENA TECHNOLOGIES, INC.				
4. HOLE NO.	(As shown o	n drawing title and file number)	13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0				
		BIVC-02-02A	14. TOTAL				
5. NAME OF D	RILLER	Jerry Sexton	15. ELEVA				
6. DIRECTION	OF HOLE	VERTICAL	16. DATE I			Completed 2 07:00 DLE -1.2 FT	
7. THICKNESS	OF BURDE	N 0.0 FT				RY FOR BORING 83%	
8. DEPTH DRII 9. TOTAL DEP			19. SIGNAT	TURE OF	GEOLO	GIST JB	
		CLASSIFICATION OF MATER	RIALS	CORE	ᆲ띪		
ELEV. DEI	LEGEND HTG	(Description)		REC %	SAMPLE NUMBER	REMARKS	
-1.2	0						
-11.7	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	JET					
-17.9	12 11 13 14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	SAND, fine-med grained, quartz, t little shell hash, trace shell fragme (5y-6/1), (SP).	race silt, nts, gray		2s#4		
-19.2	17	No Recovery					
	18	End of Boring		†			
	19						
	20						
	21	Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.					
	24						
			PROJE	CT: BOGU	E INLET.	N.C. HOLE NUMBER: BIVC-02-02A	

								HOLE NO. BIVC-02-0
DRIL	LING LO	og	DIVISION:	INSTALL	ATION:			SHEET 1 of 1
1. PROJE	СТ	BOGI	JE INLET	10. SIZE	AND TYPE	OF BIT	5.0"	
2. LOCA	(Coord	dinates o	or Station) 568615 Y=329401	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW				
3. DRILLII	NG AGENC		ENA TECHNOLOGIES, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL ATHENA TECHNOLOGIES, INC.				
4. HOLE N	NO. (As st	nown on	drawing title and file number)		O. OF OVE	ERBURI		LES TAKEN
	OF 55		BIVC-02-03		L NO. OF			
5. NAME	OF DRILLE	:R	Jerry Sexton		ATION GRO			
6. DIRECT	TION OF HO	DLE	VERTICAL	16. DATE		Started 7/20/02		Completed
7. THICKN	NESS OF BI	URDEN	0.0 FT					PRING 100%
	DRILLED I			19. SIGNA	TURE OF	GEOLO	GIST JB	
9. TOTAL	DEPTH OF	HOLE	11.3 FI					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE		REMARKS
-1	0-							
	1 2 3		SAND, fine-med grained, quartz, t some shell hash, trace shell fragme (5Y-6/1), (SW).			1		#1, Depth = 2.5' nm): 0.34, Phi Sorting: 0.88 % (SW)
-5.8	5 6 7		fine-med grained, quartz, trace s shell hash, trace shell fragments shell @ 6.8' (0.5"x1"), gray (5Y-6/	, whole		2		#2, Depth = 6.0' im): 0.31, Phi Sorting: 0.98 % (SW)
-8.3	8		SHELLY SAND, sand component i quartz sand, some shell fragments long, whole shell @ 7.4' (1"x1") an	up to 2"		3		#3, Depth = 8.0' nm): 1.34, Phi Sorting: 2.22
-10	9-		(1"x2"), olive gray (5Y-5/2), (5	SW).		4		#4, Depth = 9.5'
-11.7	10		SAND, med grained, quartz, som hash, trace shell fragments, gray (SW).			4	Mean (m Silt: 0.8%	nm): 0.45, Phi Sorting: 0.93 % (SW)
	11 12 13 14 15 16 17 18 19 20 12 23 12 24 1		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.	PROJ	FCT: BOOL	F INI FT	N.C.	HOLE NIIMBER: BIVC-02-03
				PROJ	ECT: BOGU	E INLET,	N.C.	HOLE NUMBER: BIVC-02-03

							HOLE NO. BIVC-02-03
DRILI	LING LOG	DIVISION:	INSTALLA	TION:			SHEET 1 of 1
1. PROJE	CT BOGL	JE INLET	10. SIZE A				
2. LOCA	(Coordinates o	or Station) 568615 Y=329401		N	ILW		(TBM or MSL)
3. DRILLII	NG AGENCY: ATH	ENA TECHNOLOGIES, INC.	12. MANUF				I OF DRILL OGIES, INC.
4. HOLE N	IO. (As shown on	drawing title and file number)	ATHENA TECHNOLOGIES, INC. 13. TOT NO. OF OVERBURDEN SAMPLES TAKEN				
		BIVC-02-03A	Di 14. TOTAL			sturbed: 0	
5. NAME	OF DRILLER	Jerry Sexton	15. ELEVA				
6. DIRECT	TION OF HOLE	VERTICAL	16. DATE I			07:30	Completed
7. THICKN	IESS OF BURDEN	0.0 FT	17. ELEVA 18. TOTAL				PRING 69%
	DRILLED INTO R		19. SIGNA	TURE OF	GEOLO	GIST JB	
ELEV.	DEPTH OF HOLE ON DEPTH ON ON ON ON ON ON ON ON ON O	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE		REMARKS
-10.7	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	JET					
-11.3	10-	GAP SAND, fine-med grained, quartz, t little shell hash, light gray (5y-7/	race silt,		1	Sample Mean (m	#1, Depth = 10.7' nm): 0.21, Phi Sorting: 0.49
-12.3	11	SAND, fine-med grained, quartz, t some shell hash, gray (5Y-6/1),	race silt,		3s#1	Silt: 1.59	9% (SP)
-14 -18.1	13 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	SHELLY SAND, shell hash, shell fr whole oyster shells, sand compo fine-med quartz, olive gray (5Y-5/	nent is		3s#3		
-20.5	18 1	No Recovery					
	20 = 21 = 22 = 23 = 24 = 24 = 24	End of Boring Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.					
			PROJE	CT: BOGU	E INLET,	N.C.	HOLE NUMBER: BIVC-02-03A

HOI F NO. BIVC-02-04

							HOLE NO. BIVC-02-0	
DRILI	LING LO	og	DIVISION:	INSTALL	ATION:		SHEET 1 of 1	
1. PROJE	СТ	BOGL	JE INLET		AND TYPE			
2. LOCA1	(Coord	dinates o	r Station)	11. DATU			ON SHOWN (TBM or MSL)	
			569112 Y=327518	12. MANUFACTURER'S DESIGNATION OF DRILL				
			ENA TECHNOLOGIES, INC. drawing title and file number)	ATHENA TECHNOLOGIES, INC. 13. TOT NO. OF OVERBURDEN SAMPLES TAKEN				
4. HOLE N	10. (AS SI	IOWII OII	BIVC-02-04				isturbed: 0	
5. NAME	OF DRILLE	R	Jerry Sexton		L NO. OF			
6. DIRECT	TION OF HO			16. DATE	ATION GRO	Started	Completed	
			VERTICAL	17. ELEV			2 09:30 DLE -11.0 FT	
	IESS OF BU			18. TOTA	L CORE R	ECOVE	RY FOR BORING 59%	
	DRILLED I			19. SIGNA	ATURE OF	GEOLO	OGIST JB	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE NUMBER	REMARKS	
-11	0-					<i>5,</i> 2		
-13.8	1 2		SAND, fine-med grained, quartz, I hash, gray (5Y-6/1), (SP)			1	Sample #1, Depth = 1.5' Mean (mm): 0.26, Phi Sorting: 0.84 Silt: 1.21% (SP)	
-15.4	3-4-		SAND, med grained, quartz, son hash, trace shell fragments, oliv (5Y-5/2), (SW).			2	Sample #2, Depth = 3.5' Mean (mm): 0.38, Phi Sorting: 1.52 Silt: 1.28% (SW)	
-18.4	5 6 7 8 8		No Recovery					
	10 11 12 13 14 15 16 17 18 19 11 20 12 23 13 14 22 23 15 25 25 25 25 25 25 25 25 25 25 25 25 25		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.					
	24			PRO	JECT: BOGU	E INLET,	, N.C. HOLE NUMBER: BIVC-02-04	

							HOLE NO. BIVC-02-0	
DRILI	LING LO	OG	DIVISION:	INSTALLA	TION:		SHEET 1 of 1	
1. PROJE	СТ	BOGL	JE INLET	10. SIZE A				
2. LOCA	(Coord		r Station)	11. DATU		E VATIO ILW	N SHOWN (TBM or MSL)	
			569112 Y=327518	12. MANUI			SIGNATION OF DRILL	
			ENA TECHNOLOGIES, INC.	ATHENA TECHNOLOGIES, INC.				
4. HOLE N	IO. (As sh	own on	drawing title and file number) BIVC-02-04A	13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0				
5. NAME	OF DRILLE	R		14. TOTAL NO. OF CORE BOXES				
	ION OF HO	•	Jerry Sexton	15. ELEVATION GROUND WATER 16. DATE HOLE Started Completed				
6. DIRECT	ION OF HO	LE	VERTICAL			7/17/02	2 09:30 DLE -11.0 FT	
7. THICK	IESS OF BU	IRDEN	0.0 FT				RY FOR BORING 75%	
	DRILLED II			19. SIGNA	TURE OF	GEOLO	GIST JB	
9. TOTAL	DEFIN OF		0.011			~		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE NUMBER	REMARKS	
-11	0_							
	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
	│		JET					
	2 =		JEI					
	3=							
-15	4=		SAND fine-med grained guartz to	trace silt				
-16.6	5 11		some shell hash, trace shell fragme (5Y-6/1), (SW).	SAND, fine-med grained, quartz, trace silt, some shell hash, trace shell fragments, gray (5Y-6/1), (SW).			Sample #1, Depth = 4.7' Mean (mm): 0.23, Phi Sorting: 1.10 Silt: 1.11% (SW)	
-18	6		SHELLY SAND, shell hash, s component is med grained quart shell fragments, gray (5Y-5/1),	z, some		2	Sample #2, Depth = 6.4' Mean (mm): 0.52, Phi Sorting: 1.64 Silt: 0.96% (SW)	
-19	7 =		No Recovery				. Cint. 0.00% (CVV)	
-19	. 8 <u>=</u>		End of Boring		1			
	9 = 1							
	10							
	11							
	<u></u>							
	12							
	13=							
	14							
	15							
	▋							
	16							
	17							
	18							
	19							
	▏▋							
	20							
21 Note: 1) Soils are field visually								
	22		classified in accordance with the Unified Soil Classification System.					
	23		Onlined Son Classification System.					
	▏▋							
	24-							
				PROJE	CT: BOGU	E INLET	, N.C. HOLE NUMBER: BIVC-02-04A	

							HOLE NO. BIVC-02-04	
DRIL	LING LO)G	DIVISION:	INSTALLA	TION:		SHEET 1 of 1	
1. PROJE	СТ	BOG	UE INLET	10. SIZE AND TYPE OF BIT 3.0"				
2. LOCA	(Coord		or Station) 2569112 Y=327518		- N	1LW	N SHOWN (TBM or MSL)	
3. DRILLII	NG AGENCY	/ : AT⊦	IENA TECHNOLOGIES, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL ATHENA TECHNOLOGIES, INC.				
4. HOLE N	NO. (As sh	own on	drawing title and file number)	13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0				
			BIVC-02-04B	14. TOTAL				
	OF DRILLE	Jerry Sexton	15. ELEVA					
6. DIRECT	VERTICAL	16. DATE I			Completed 2 09:30 DLE -11.0 FT			
7. THICK	NESS OF BU	IRDEN	0.0 FT				RY FOR BORING 45%	
	DRILLED II			19. SIGNA	TURE OF	GEOLO	OGIST JB	
ELEV.	DEPTH OF	LEGEND	CLASSIFICATION OF MATER (Description)	RIALS	CORE REC %	SAMPLE	REMARKS	
-11		_				0, 2		
-18	0 1 2 3 4 5 6 7 6 7		JET					
-18.5	7		SAND, fine-med grained, quartz, to some shell hash, trace shell fragme			4s#2	Canada #4 Danth - 7.01	
	8 📑		(5Y-6/1), (SW).			1	Sample #1, Depth = 7.9' Mean (mm): 0.87, Phi Sorting: 2.12	
-20	9=		SHELLY SAND, shell hash, shell fr sand component is fine-med quart	z, whole			Silt: 0.93% (SW)	
	10		oyster shells up to 2", gray (5Y-5/	1), (SW).				
	10=		No Recovery					
-22.4	11=				1			
	12		End of Boring					
	13 14 15 16 17 18 19 20 21 22 23 24 24		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.					
				PRO.IF	CT: BOGU	IE INLET.	, N.C. HOLE NUMBER: BIVC-02-04B	

DRILLING LOG DIVISION: INSTALLATION: 1. PROJECT 10. SIZE AND TYPE OF BIT 3.0"	SHEET 1 of 1	
1. PROJECT 10. SIZE AND TYPE OF BIT 3.0"		
BOGUE INLE I	A == MCL)	
2. LOCATION X=2569519 Y=326895 MLW		
3. DRILLING AGENCY: ATHENA TECHNOLOGIES, INC. 12. MANUFACTURER'S DESIGNATION OF DRILL ATHENA TECHNOLOGIES, INC.		
4. HOLE NO. (As shown on drawing title and file number) 13. TOT NO. OF OVERBURDEN SAMPLES TO Disturbed: 0 Undisturbed: 0	13. TOT NO. OF OVERBURDEN SAMPLES TAKEN	
14. TOTAL NO. OF CORE BOXES		
5. NAME OF DRILLER Jerry Sexton 15. ELEVATION GROUND WATER		
DIRECTION OF HOLE VERTICAL 16. DATE HOLE Started Completed 7/17/02 07:50		
7 THICKNESS OF BURDEN CO FT	17. ELEVATION TOP OF HOLE -18.0 FT 18. TOTAL CORE RECOVERY FOR BORING 80%	
8. DEPTH DRILLED INTO ROCK N/A 9. TOTAL DEPTH OF HOLE 11.0 FT		
CLASSIFICATION OF MATERIALS CORE W	REMARKS	
-18 O		
SAND, fine grained, quartz, trace silt, little shell hash, trace shell fragments, gray 1 Sample #1, [0.15 Phi Sorting: 0.57	
SAND, fine-med grained, quartz, some shell hash, little shell fragments up to 1", whole 2 Mean (mm):	Depth = 8.3' 0.65, Phi Sorting: 1.55	
-26.8 shells @ 8.1' (1"x1") and @ 8.4' (1"x1"), gray silt: 1.20% (S		
No Recovery		
-29		
End of Boring		
12 13 14 15 16 17 18 18 19 19 20 21 19 19 19 19 19 19 19 19 19 19 19 19 19	F NI IMBER' BIVC-02-05	
	LE NUMBER: BIVC-02-05	